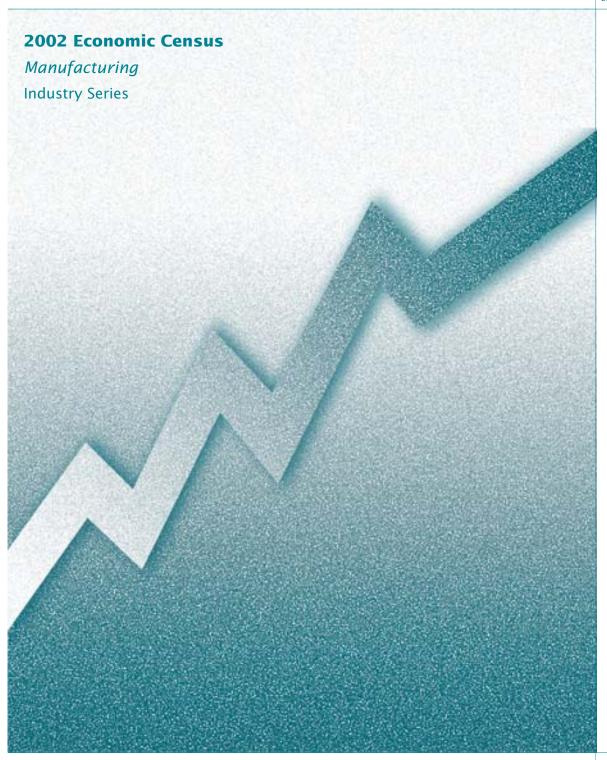
Synthetic Rubber Manufacturing: 2002

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U.S. Department of Commerce Economics and Statistics Administration U.S. CENSUS BUREAU



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-- Not applicable for this report.

Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

		All			Production workers				Total	Total	Total capital
Industry and year ¹	Com- panies ²	estab- lish- ments ³	Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)		expendi- tures (\$1,000)
325212, Synthetic rubber manufacturing2002 2001 2000 1999 1998 1997	134 N N N N 122	157 N N N N	9 561 9 047 10 786 11 212 10 912 12 172	522 068 495 178 598 203 613 516 596 454 628 341	6 395 6 041 7 238 7 346 7 101 7 819	12 834 13 158 15 345 16 087 15 692 16 705	325 130 298 691 356 299 356 065 350 542 366 002		2 828 597 2 967 545 3 477 550 2 738 780 2 774 641 3 394 947	5 782 311 5 204 008 5 835 814 5 571 073 5 342 742 6 153 708	333 629 168 802 343 783 295 290 349 308 388 526

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

		All establishments ²		All employees		Production workers						
Industry and geographic area	E¹	Total	With 20 em- ploy- ees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
325212, Synthetic rubber manufacturing												
United States. California Georgia Illinois Indiana Kentucky Louisiana Texas	5 2 2 9	157 29 6 8 7 4 6 22	62 6 3 2 4 3 6 12	9 561 579 293 114 223 1 045 1 361 2 540	522 068 25 111 18 003 4 490 9 116 62 555 84 137 150 965	6 395 343 183 72 151 652 952 1 742	12 834 685 394 142 282 1 349 2 032 3 735	325 130 15 444 10 429 2 180 4 603 37 264 56 366 97 423	3 058 793 76 230 162 592 14 140 64 428 278 296 511 901 829 189	2 828 597 79 416 145 099 13 732 59 735 243 667 619 908 951 250	5 782 311 154 877 305 375 27 520 124 150 510 824 1 126 399 1 772 885	333 629 10 202 11 515 2 379 9 384 14 892 117 017 104 121

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
325212, Synthetic rubber manufacturing	
Companies ¹ number	134
All establishments ²	157 95 35 27
All employees³ number Total compensation \$1,000 Annual payroll \$1,000 Total fringe benefits \$1,000	9 561 705 292 522 068 183 224
Production workers, average for year	6 395 6 438 6 316 6 398 6 405
Production worker hours	12 834 325 130
Total cost of materials \$1,000. Materials, parts, containers, packaging, etc., used \$1,000. Resales \$1,000. Purchased fuels \$1,000. Purchased electricity \$1,000. Contract work \$1,000.	2 828 597 2 427 777 105 734 158 409 90 676 46 001
Quantity of electricity purchased for heat and power. 1,000 kWh. Quantity of electricity generated less sold for heat and power 1,000 kWh.	1 910 413 D
Total value of shipments \$1,000. Primary products value of shipments \$1,000. Secondary products value of shipments \$1,000. Total miscellaneous receipts \$1,000. Value of resales \$1,000. Contract receipts \$1,000. Other miscellaneous receipts \$1,000.	5 782 311 4 930 883 741 154 110 274 108 994 D D
Primary products specialization ratio percent. Value of primary products shipments made in all industries \$1,000. Value of primary products shipments made in this industry \$1,000. Value of primary products shipments made in other industries \$1,000.	87 5 984 702 4 930 883 1 053 819
Coverage ratiopercent	82
Value added\$1,000	3 058 793
Total inventories, beginning of year \$1,000. Finished goods inventories \$1,000. Work-in-process inventories \$1,000. Materials and supplies inventories \$1,000.	679 167 435 580 88 696 154 891
Total inventories, end of year \$1,000. Finished goods inventories \$1,000. Work-in-process inventories \$1,000. Materials and supplies inventories \$1,000.	811 600 565 215 64 140 182 245
Gross value of depreciable assets (acquisition costs) at beginning of year \$1,000. Total capital expenditures (new and used) \$1,000. Buildings and other structures (new and used) \$1,000. Machinery and equipment (new and used) \$1,000. Automobiles, trucks, etc., for highway use \$1,000. Computers and peripheral data processing equipment \$1,000. All other expenditures for machinery and equipment \$1,000. Total retirements \$1,000. Gross value of depreciable assets at end of year \$1,000.	5 025 448 333 629 36 350 297 279 3 512 13 033 280 734 239 233 5 119 844
Depreciation charges during year	255 046
Total rental payments \$1,000. Buildings and other structures \$1,000. Machinery and equipment \$1,000.	26 585 11 699 14 886
Total other expenses ⁴ \$1,000. Response coverage ratio ⁵ percent. Repair and maintenance services of buildings and/or machinery ⁴ \$1,000. Communications services ⁴ \$1,000. Legal services ⁴ \$1,000. Accounting, auditing, and bookkeeping services ⁴ \$1,000. Advertising and promotional services ⁴ \$1,000. Expensed computer hardware and supplies and purchased computer services ⁴ \$1,000. Refuse removal (including hazardous waste) services ⁴ \$1,000. Management consulting and administrative services ⁴ \$1,000. Taxes and license fees ⁴ \$1,000. All other expenses ⁴ \$1,000.	439 217 77 97 262 3 844 2 932 1 884 5 195 3 150 8 956 11 787 19 135 285 077

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.
2Includes establishments with payroll at any time during the year.
3Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.
4Based on Annual Survey of Manufactures (ASM) sample data.
5A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class			All employees		Pr	oduction worke	ers		Total	Total	Total capital
		All estab- lish- ments ²	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
325212, Synthetic rubber manufacturing											
All establishments	8 7 6 2 - 1 1 -	157 56 18 21 17 18 13 12 2	9 561 114 c 294 573 1 215 1 765 4 018 g	522 068 4 570 D 14 054 25 320 63 126 94 904 238 805 D	6 395 76 D 195 377 780 1 102 2 646 D	12 834 138 D 411 755 1 593 2 271 5 672 D	325 130 2 831 D 8 624 12 871 34 317 58 913 150 386 D	3 058 793 13 430 D 46 740 87 986 461 526 613 047 1 217 850 D	2 828 597 20 009 D 63 439 91 989 388 158 572 535 1 217 227 D	5 782 311 33 170 D 110 540 173 014 843 810 1 202 513 2 311 986 D	333 629 2 421 D 6 599 72 606 96 313 45 027 80 587 D
2,500 employees or more Administrative records ⁴	9	25	61	2 733	42	78	1 724	8 711	12 834	20 990	1 576

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

¹Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or	Industry or primary product class	All	All employees		Pr	oduction work	ers		Total	Total	Total capital
product class code		estab- lish- ments ¹	Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
325212	Synthetic rubber manufacturing	157	9 561	522 068	6 395	12 834	325 130	3 058 793	2 828 597	5 782 311	333 629
3252120	Synthetic rubber (vulcanizable elastomers)	157	9 561	522 068	6 395	12 834	325 130	3 058 793	2 828 597	5 782 311	333 629

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Products Statistics: 2002 and 1997 Table 6a.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

		Number of	-	Product	shipments
Product code	Product	companies with shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)
325212	Synthetic rubber manufacturing	N N	X	×	5 984 702 6 249 385
3252120	Synthetic rubber (vulcanizable elastomers)	N N	X	X	5 984 702 6 249 385
32521201	Styrene-butadiene rubber (SBR), excluding latex	N N	X	X X	1 092 691 1 090 752
3252120111	Styrene-butadiene rubber (SBR), excluding latex	13	X	⁹ 2 679.4	1 092 691
32521202	Styrene-butadiene rubber (SBR), latex	7 N	X	2 546.0 X	1 090 752 616 568
3252120211	Styrene-butadiene rubber (SBR), latex	N 9	X	91 432.7	477 767 616 568
32521203	Butyl, polychloroprene, and stereo polyisoprene elastomers, and nitrile rubber, including latex	8 N	X X	^q 1 267.2	477 767 1 031 966
3252120311	1997. Nitrile rubber, including latex	N 11	X X	X	1 116 279 275 625
3252120321	1997 Butyl, polychloroprene, and stereo polyisoprene	10	Х	q320.3	322 523
	elastomers, including latex	8 8	X	S 805.9	756 341 793 756
32521204	Stereo polybutadiene elastomers, including latex	N N	X	X	582 768 469 844
3252120411	Stereo polybutadiene elastomers, including latex	3 4	X X	1 177.6 1 045.0	582 768 469 844
32521205	Ethylene-propylene elastomers, including latex	N N	X X	X X	373 154 639 560
3252120511	Ethylene-propylene elastomers, including latex mil lb2002	11 11	X X	P538.0 806.1	373 154 639 560
32521206	Silicone elastomers	N N	X X	X	565 042
3252120611	1997 Silicone elastomers	25 16	x X	X S S	700 350 565 042 700 350
32521207	Other elastomers, excluding thermoplastic elastomers, including latex	N N	x	X	667 766
3252120711	Other elastomers, excluding thermoplastic elastomers,	N N	â	â	492 811
3232120711	including latex mil lb 2002	19	×	S 9199.8	667 766 492 811
32521208	1997 Thermoplastics elastomers	14 N	X	X	859 265
3252120811	Thermoplastics elastomers	N 16	X	9679.1	962 329 859 265
3252120Y	Synthetic rubber (vulcanizable elastomers), nsk, total	12 N N	X X X	^{9732.9} X X	962 329 195 482 299 693
3252120YWW	Synthetic rubber (vulcanizable elastomers), nsk, for nonadministrative-record establishments 2002.	N	x	X	177 279
20504200//4//	1997	N N	â	,	186 315
3252120YWY	Synthetic rubber (vulcanizable elastomers), nsk, for administrative-record establishments	N N	X	X	18 203 113 378

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. Product Class Shipments for Selected States: 2002 and 1997

[Not applicable for this report.]

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
325212	Synthetic rubber manufacturing		
00900001	Total materials	X	2 427 777
32519207	1997 Styrene (100 percent basis)	890.1	2 975 475 238 273
32519205	Phenol (100 percent basis)	788.3 D D	209 507 D D
32519229	Other cyclic crudes and intermediates (including melamine, phthalic anhydride, and benzene)	X	D D
32519217	Synthetic organic dyes, pigments, lakes, and toners (100 percent basis)	q.5 D	1 264 D
32510043	Acrylates and methacrylates, monomers (100 percent basis) mil b. 2002 mil b. 2002 1997	144.5 115.9	56 160 57 029
32510037	Alcohols, excluding ethyl (100 percent basis) mil lb2002.	7.1 98.4	2 869 1 979
32510041	Formaldehyde (100 percent HCHO)	.1 D	22 D
32510055	Rubber processing chemicals (accelerators, antioxidants, blowing agents, inhibitors, peptizers,		
	etc.)	X	105 833 121 091
32510047	Vinyl acetate, monomer (100 percent basis)	D D	D D
32510049	Vinyl chloride, monomer (100 percent basis)	0	D D
325100A3	Other synthetic organic chemicals (including acrylonitrile and cellulose acetate)	XX	49 653 198 035
32411031	Ethane used as a raw material or feedstock	D	D
32411033	Ethylene used as a raw material or feedstock	D 321.2	D 66 550
32411035	Propane used as a raw material or feedstock	P364.0 D D	83 427 D D
32411037	Propylene used as a raw material or feedstock	164.9	30 476
32411043	Butadiene used as a raw material or feedstock	3 083.9	51 878 650 997
32411045	Other refined petroleum products used as a raw material or feedstock (butane, isobutane,	P3 128.4	643 084
	butylene, isobutylene, etc.) mil lb2002 1997	D 670.6	D 237 056
00190002	Other hydrocarbons used as raw materials or feedstocks (including crude oil, natural gas and still gas)	×	22 912
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc	X X X	22 912 D 91 925
325000B7	1997	X X X	124 349 54 024
023000B1	1997.	â	71 255
32518200	Carbon black	147.0 S	54 241 48 868
32500061	All other miscellaneous chemicals (including additives, driers, modifiers, biocides, and dispersants)	x	208 792
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging	X	N
	supplies)	X	82 424 41 577
00970099	All other materials and components, parts, containers, and supplies.	X X X	398 571 666 741
00971000	Materials, ingredients, containers, and supplies, nsk	X	60 417 220 880

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.